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CIA-RDP86-00513R000620110011-9

BOGCHAVLENKAYA, L.B.; KALINA, A.P.

Methodology of determining enterogenic *Escherichia coli*. Lab.
de lo no.8:491-496 '65.
(MIRA 18:9)

1. Gosudarstvennyy kontrol'nyy institut meditsinskikh
biologicheskikh preparatov imeni Tarasevicha, Moskva.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000620110011-9"

KALININA, A.P.

Economic analysis of industrial processes in ore dressing and metallurgical plants. Izv. vys. ucheb. zav.; tsvet. met. 8 no.1:159-165 '65. (MIRA 18:6)

1. Lenigradskiy finansovo-ekonomicheeskiy institut, kafedra bukhgeometricheskogo ucheta i analiza khozyaystvennoy deyatelnosti.

KALININA, A.V.

FILE 1 BOOK REVIEWS 307/LB

Akademija nauk SSSR. Institut struktur, i telemekhaniki
Arkhiv istochnikov periodicheskikh zhurnalov i literatury [Automatic Control] Collected
Works [Izobrazeniye] Izdatelstvo SSSR [1960]. 431 p. Bratya slip issued. 51,500

Ed.: I.A.Z. Tsvetin, Doctor of Technical Sciences, Professor; Ed. of Publishing
House: Tsel. Gosp. [new] Tech. Ed. Publ. Agency.

PURPOSE: This collection of reports is intended for scientists and engineers
engaged in the study of automation.

CONTENTS: The collection contains reports presented at the 6th Conference of
Young Scientists of the Institute of Automatic Control Mechanisms of USSR (Institute
of Automation and Telemechanics of the Academy of Sciences USSR) in January
1959. The collection presents a wide range of automatic control problems, among
them many new ones. No personal names are mentioned. References

REPORTER: S.A. Livanov, Institute of Automatic Control Mechanisms of the Academy of Sciences of the USSR

Summary: This bulletin dealing in the rolling industry and the importance
of rolling mills in the economy of the country is the cause of considerable interest.
How to increase the accuracy of rolling processes is to obtain a considerable
quantity of metal. The author concludes that a way of strip rolling
possible to build an electronic analog with which to investigate the op-
eration of strip rolling thick strip automatic control. There are 15
references to Soviet (including one translation), 2 English.

EDITORIAL: Investigation of Self-Adjusting Systems for Automatic Control
of Operating Conditions in Electric Flushing Heaters

This report discusses the following problems connected with a realiza-
tion of welding control in electric arc welding machines: (1) circuit
principles, choice of structure and calculation of basic characteristics
for compensating computers which serve the necessary process of regulation
and optimization; (2) circuit principles with given characteristics of object
and basic characteristics of compensating computers which serve as
basic characteristics of compensation parameters when object and compen-
sation are built in electrical pulse-welding machine having a series of tech-
nical considerations. There are 7 references, all Soviet.

EDITORIAL: Operating Circuits of a Multichannel Automatic Optimizer
principles developed by A.A. Polubarnov, built according to
search of the extreme of a function of many variables,
operating circuits and elements made as analog input unit, channel storage
elements, channel integrators, and electronic switches are reviewed.
There are 3 references, all Soviet.

EDITION: Some Problems of Automatic Control Systems With a Delay
Expressed by Linear Differential Equations With a Time Lag
The author presents the concept of automatic delay control, analyzes
differential equations with a time lag, and describes some methods of
solving differential equations with a time lag. There are 15 references
Card 6/23

KALININA, A. V.

AUTHOR: Kalinina, A. V.

TITLE: Development of the History of Russian Social Thought (Razrabotka istorii russkoy obshchественной мысли). Scientific Conference in the Section for Economy, Philosophy, and Jurisprudence (Nauchnoye soveshchaniye v otdelenii ekonomicheskikh, filosofskikh i pravovykh nauk).

PERIODICAL: Vestnik AN SSSR, 1957, Vol. 27, Nr 12, pp. 98-101 (USSR).

ABSTRACT: The conference, which occupied itself with the scientific investigation of the history of Russian Social thinking in the 18th and 19th centuries, was attended by scientists "the department of the institutes for economy, philosophy, jurisprudence and history of the AN USSR. Other participants were: scientists of Moscow University, of the AN of the Central Committee of the Communist Party of the Soviet Union, and of other institutions. A. I. Fashkov lectured on "The Principles of the Periodization of the History of Russian Social Thought". M. T. Lovchuk spoke about "Some Questions of Method in the History of Russian Social Thought in the 18th and 19th century and their representation in Soviet scientific literature between 1954 and 1956". A. N. Maslin, S. F. Kechevyan, V. S. Pokrovskiy, L. M. Kogan and others who had voiced their opinion as regards these lectures stressed the fact that the

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Development of the History of Russian Social Thought.
Scientific Conference in the Section for Economy, Philosophy, and Jurisprudence.

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periodical "Problems of History" (as e. g. in the criticism by A. Kazanin and partly also in that by S. Pokrovskiy and S. Paparigopulo) criticized the works dealing with the History of Russian Social Thought in a biased manner. In this periodical the attempt was made to disregard all that had been achieved by Soviet scientists in this field during the past 10 to 15 years. In the course of the discussion a number of contested ideas was dealt with. During the debate the periodical "Problems of Philosophy" was criticized, because it did not publish criticism of books dealing with the history of Russian Social thought. Also articles on the history of the social thinking of other nations of the Soviet State were not published by this periodical. Also methodological questions of the history of Russian philosophy are ignored by it. L. N. Kogan criticized the unclear definition of the subject to be investigated in the works dealing with the history of Russian philosophy. Several of the lecturers were also subjected to a just criticism as e. g. V. G. Baskakov and Yu. F. Karyakin. The participants in the conference expressed the wish that thematic discussions be held at the AN USSR during the next 1 1/2 - 2 years. The following themes were suggested. The history of the Marxist idea in Russia during Soviet rule, common ideas and specific features of social thought in Western

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Development of the History of Russian Social Thought.
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and Eastern countries in the 19th and 20th centuries, ideological ties and
national characteristics of the social ideas among the various peoples of
the USSR, etc. The conference expressed the wish that a new scientific
periodical dealing with the history of social thought in Russia, and
thematical reference works dealing with the same subject be published.

AVAILABLE: Library of Congress.

1. History--USSR
2. Philosophy--USSR

Card 3/3

KALININA, A. V.

KALININA, A. V.

Brush

Brushwood thickets in the nut grove region on the slopes of Fergana and Chotkal Ranges
of western Tien Shan Trudy Bot. inst. AN SSSR. Ser. 3, No. 7, 1951.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

KALININA, A.V.

Forage grass cultivation in the Mongolian People's Republic.
Trudy Mong.kom. no.55:1-64 '53. (MLRA 7:5)
(Mongolia--Grasses) (Grasses--Mongolia)

KALININA, A.V.; LAVRENKO, Ye.M., redaktor; YUNATOV, A.I., redaktor;
RED'KIN, I.Ye., redaktor; MOLODTSOVA, N.G., tekhnicheskiy redaktor.

Experimental station investigation of pastures in the Mongolian
People's Republic. Trudy Mong.kom. no.60:3-128 '54. (MIRA 8:4)
(Mongolia--Pastures and meadows)

FIDOROVICH, B.A.; SHUVALOV, S.A.; KALININA, A.X.

Natural prerequisites for the division of northern regions of the
Kazakh S.S.R. into agricultural districts. Vest. AN Kazakh. SSR
11 no.11:45-56 N '55. (MLRA 9:3)
(Kazakhstan--Physical geography)

A.V.
KATANSKAYA, V.M.; TIKHOVSKAYA, Z.P.; KISELEV, I.A.; GYUBRENNET, Ye.R.; KALININA,
A.V.

"Hydrobotany" [in German], vol.1: Conservation of energy, by Fr.Gessner.
Reviewed by V.M.Katanskaia and others. Bot.zhur.42 no.1:119-127 Ja '57.
(Marine flora) (Fresh-water flora) (Botany--Ecology)
(Gessner, Fr.)

KALININA, A.V.

"Natural food supply of the Gorno-Altai Autonomous Province";
"Trudy" of the Biological Institute of the Western Siberian
Branch of the Academy of Sciences of the U.S.S.R., no.2, 1956.
Reviewed by A.V. Kalinina. Bot. zhur. 42 no.6:941-943 Je '57(MIRA 10:7)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk
SSSR, Leningrad.
(Gorno-Altai Autonomous Province--Botany, Economic)

KALININA, A.V.

Geobotany in geological research ("Using the geobotanical method
in geological and hydrogeological research" by S.V. Viktorov.
Reviewed by A.V. Kalinina). Bbt, zhur. 43 no.2:294-296 P '58.

(MIRA 11:5)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR,
Leningrad.

(Geological research) (Phytogeography)
(Viktorov, S.V.)

KALININA, N.V.

Session on problems in seasonal dynamics of biocoenoses. Bot. inst.
no. 5:740-742 My '59.
(MLA 12:1)

1. Botanicheskiy Institut im. V.I. Komurova AN SSSR, Leningrad.
(Botany--Ecology) (Soil formation)

KALININA, A.V.; STRAUTMAN, Ye.I.; MATESOVA, G.Ya.

Effect of cultivation on nature in regions of reclaimed
virgin lands of northern Kazakhstan. Bot.zhur. 44 no.8:
1091-1102 Ag '59. (MIRA 13:2)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR, Leningrad. 1
Institut zoologii AN Kazakhskoy SSR, Alma-Ata.
(Kazakhstan--Reclamation of land)

FEDOROVICH, B.A., prof., doktor geograf.nauk, otv.red.; ZYKOV, D.A., akademik, agronom-rasteniyevod, red.; IVANOVA, Ye.N., prof., doktor sel'skokhos.nauk, red.; KALININA, A.V., kand.biolog.nauk, red.; LAVRENKO, Ye.M., red.; KUSHEV, S.L., kand.geogra.nauk, red.. Prinimali uchastiye: YEROKHINA, A.A., pochvoved; IVANOVA, Ye.N., pochvoved; ROZOV, N.N., pochvoved; ZATENATSKAYA, N.P., gidrogeolog; KARPEKINA, L.S., red.izd-va; SMIRNOVA, A.V., tekhn.red.

[Division of northern Kazakhstan into natural regions; Kustanay Province, North Kazakhstan Province, Kokchetav Province, Akmolinsk Province, and Pavlodar Province] Prirodnoe raionirovanie Severnogo Kazakhstana; Kustanaiskia, Severo-Kazakhstanskia, Kokchetavskia, Akmolinskia i Pavlodarskia oblasti. Moskva, 1960. 468 p.

(MIRA 13:7)

1. Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil.
2. Institut geografii AN SSSR (for Fedorovich). 3. AN Kazakhskoy SSR; Sovet po izucheniyu proizvoditel'nykh sil (SOAPS) AN Kazakhskoy SSR (for Zykov). 4. Chlen-korrespondent AN SSSR (for Lavrenko).
5. Pochvennyy institut im. V.V.Dokuchayeva AN SSSR (for Yerokhina, Ivanova, Rozov). 6. Sovet po izucheniyu proizvoditel'nykh sil AN SSSR (for Zatenatskaya).

(Kazakhstan--Physical geography)

ISACHENKO, T.I., BORISOVA, I.V., KALININA, A.V., KARAMYSHEVA, Z.V.,
RACHKOVSKAYA, Ye.I.

Compiling the vegetation map of northern Kazakhstan. Bot. zhur.
45 no.5:703-706 My '60. (MIRA 13:7)

1. Botanicheskiy Institut im. V.L. Komarova Akademii nauk SSSR,
Leningrad.

(Kazakhstan--Phytogeography--Maps)

YAROSHENKO, Pavel Dionis'yevich; KALININA, A.V., kand. biol. nauk, otd. red.;
VIKHREV, S.D., red. izd-va; ARONS, R.A., tekhn. red.

[Geobotany; fundamental concepts, trends, and methods] Geobotanika;
osnovnye poniatiiia, napravleniya i metody. Moskva, Izd-vo Akad. nauk
SSSR, 1961. 474 p.
(MIRA 14:7)
(Botany—Ecology)

KALININA, A.V.

Physicogeographical conditions of northern Kazakhstan. Trudy
Bot. inst. Ser. 3 no.13:7-35 '61. (MIRA 15:1)
(Kazakhstan--Physical geography)

History of the investigations of the northern Kazakhstan
vegetation. Trudy Bot. inst. Ser. 3 no.13:36-53 '61. (MIRA 15:1)
(Kazakhstan--Botanical research)

Sandy steppes of northern Kazakhstan; psammophytic variants
of the steppe. Trudy Bot. inst. Ser. 3 no.13:398-443 '61.
(MIRA 15:1)

BORISOVA, I.V.; ISACHENKO, T.I.; KALININA, A.V.; KARANYSHEVA, Z.V.;
RACHKOVSKAYA, Ye.I.

List of plants according to their forms of life and ecologic
and phytocoenological type. Trudy Bot. Inst. Ser. 3 no.13:487-514
'61. (MIRA 15:1)
(Kazakhstan--Botany--Classification)

KALININA, A.V.

Biotic media and the problems of the development of agriculture
of the arid regions of the U.S.S.R. Bot. zhur. 46 no.11:1574-
1583 N '61. (MIRA 15:2)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR,
Leningrad.

(Arid regions—Research)
(Botany, Economic)

KALINKAUTSKYI, Adam Vladimirovich [Kalinkauts'kyi, A. V.]; KOVALENKO,
M. Ya., red.; SHEVCHENKO, L. I., tekhn. red.

[Relation of the teaching of chemistry to agriculture] Zv'iazok
vykladannia khimii z sil's'kohospodars'kym vyrobnytstvom; po-
sibnyk dlia vchyteliv. Kyiv, Radians'ka shkola, 1962. 138 p.
(MIRA 16:4)
(Ukraine—Agricultural chemistry—Study and teaching)

KALININA, A.V.

In memory of IUrii Dmitrievich TSinzerling (1894-1939). Bot. zhur.
47 no.5:759-766 My '62. (MIRA 16:5)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(TSinzerling, IUrii Dmitrievich, 1894-1939)

KALININA, A.V.

"Ruderal plants and their communities" by Rolf Weber. Reviewed by
A.V.Kalinina. Bot. zhur. 47 no.12:1838-1843 D '62.
(MIRA 16:6)
1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.
(Plant communities)
(Rolf Weber)

KALININA, A.V.

Methods for studying the effect of grazing in the Canadian mixed prairies. Bot. zhur. 48 no.8:1172-1180 Ag '63. (MIRA 16:10)
1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Canada--Prairies) (Grazing)

KALININA, A.V.

"Fertility of some weeds" by I.A.Makodzeba, A.V.Fisiunov and
"Seed production of some weed associations in northern
Yugoslavia" by Zivko Slavhic. Reviewed by A.V.Kalinina.
Bot. zhur. 48 no.11:1711-1713 N '63. (MIRA 17:4)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

CHERFAS, M.D., kandidat meditsinskikh nauk; KALININA, A.Ye.

Characteristics of occupational trauma in truck drivers and operators
of road and earth-moving machines at the construction site of the
Stalingrad Hydroelectric Power Station. Ortop., travm. i protez. 17
no.3:55-58 My-Je '56. (MLRA 9:12)

1. Iz Saratovskogo nauchno-issledovatel'skogo instituta vosstanoviti-
tel'noy khirurgii i ortopedii (dir. - dotsent Ya.N.Rodin)
(ACCIDENTS, INDUSTRIAL statistics,
in hydroelectric station construction machine operators
(Rus))

KALININA, A. Y.

18(6) PHASE I BOOK EXPLORATION Sov/3/99

Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii
J. M. N. S. Murakova

Analiticheskaya metallofizika (Analysis of Noble Metals). Moscow,
1959. 193 p. Errata slip inserted. 2,700 copies printed.
Resp. Ed.: N. K. Pashen'tayn, USSR Academy of Sciences, Corresponding Member; and O. Ye. Zver'yanter, Doctor of Chemical Sciences, Eds. of Publishing Houses: T. G. Lervi, and D. N. Tsvetkov. Tech. Ed.: I. M. Guseva.

PURPOSE: This collection of articles is for scientists engaged in the study and analysis of the noble metals.

CONTENTS: This is a collection of articles on the analysis of the noble metals. It includes studies carried out by the Institute of General and Inorganic Chemistry J. M. N. S. Murakova (AN SSSR), as well as reports presented by scientific research organizations and by industrial enterprises at the Third and Fourth Conference on Noble Metals held in 1954 and 1957, respectively. The studies and reports describe new organic reagents for gravimetric determination of platinum metals, and physicochemical methods of analysis (spectrophotometric, polarographic and potentiometric). Special attention is given to spectral analysis for the determination of admixtures in platinum metals silver, and gold, as well as in refined noble metals. The collection also includes analytical methods, tables and charts for metals containing small amounts of the platinum group, as well as a review of the literature on the analysis of platinum metals published in the last five years. No personalites are mentioned. References follow each chapter.

Pashen'tayn, N. K., I. V. Prokhor'ev and A. S. Kalinina. Use of Thiourea for the Concentration of Platinum Metals 15

Pashen'tayn, N. K. and N. V. Pedoropko. Use of Nitrogen Substituted Salts of Dithiocarboxylic Acids for the Determination of Platinum Metals 23

Pashen'tayn, N. K., M. I. Yur'ko and I. G. Sali'skaya. Determination of Platinum, Palladium and Gold in Refined Silver 29

Pashen'tayn, N. K. and N. I. Yur'ko. Spectrophotometric Determination of Rhodium With the Aid of Potassium Iodide 37

Pashen'tayn, N. K., A. S. I. Olsenburg, and I. G. Sali'skaya. Determination of Rhodium in Electrolytic Acid Solutions by Spectrophotometry and Polarimetry. A Method 43

Al'shmarov, V. A. Photoconductometric Method for the Determination of Rhodium in the Presence of Platinum 52

Sarjan, B. G. and T. P. Yura. Photocolorimetric Methods Used in the Analysis of Platinum Metals 65

Pashen'tayn, N. K., R. A. Yerzhanova and V. S. Matritsova. Polarographic Determination of Rare Metal Admixtures in Refined Iridium 70

Murotsev, B. A. (Deceased) and V. D. Matritsova. Determination of Base Metals in Refined Silver Barin, M. B., Yu. S. Levlikov and V. S. Tsvetkov. Polarographic Determination of Certain Noble Metals by Using Platinum Electrodes 80

Aleksinov, S. J., P. G. Smul'cov, V. M. Al'shmarov, V. M. Klyubnikov and E. A. Tsvetkov. Photoconductometric Methods for the Determination of Copper, Nickel, Zinc, and Lead by Using a Cationite in Products Containing Platinum 88

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KALININA, A.Ye.; GUMILEVSKAYA, S.Ya.

Prostheses for a patient following avulsion of the right upper extremity with the scapula. Ortop., travm.i protез. no.5:56-58 '61. (MIRA 14:8)

1. Iz 3-y oblastnoy bol'nitsy (g. Balashov) Saratovskoy oblasti (glavnnyy vrach - zasluzh. vrach RSFSR Ya.P. Aydarov) i TSentral'nogo nauchno-issledovatel'skogo instituta protezirovaniya i protezostroyeniya (dir. - zasluzh. deyatel' nauki prof. B.P. Popov).

(EXTREMITIES, UPPER--WOUNDS AND INJURIES)
(ARTIFICIAL LIMBS)

KALININA, E.A.

New data on the Glazovo swell in connection with the gas oil
possibilities of the eastern part of Kirov Province. Geol.
nefti i gaza 8 no.12:47-51 D '62. (MIRA 18:2)

1. Zapadnyy geofizicheskiy trest.

KALININA, E.F.

New method of tie repairs. Put' i put.khoz. 4 no.8:26 Ag
'60. (MIRA 13:7)

1. Starshiy inzhener sluzhby puti, Yaroslavl' (for Boyko).
2. Inzh.-konsul'tant doma tekhniki, Yaroslavl' (for Kalinina).

(Railroads—Ties)

KALININA, E.M.

Changes with age in the plastic characters of the Black Sea turbot
(*Rhombus maeoticus* Pall.). Trudy SBS 11:164-166 '59. (MIRA 13:5)
(Black Sea--Turbot)

KALININA, E.M.

Development of spines in the Black Sea turbot (*Rhombus maeoticus*
Fall.) Trudy SBS 11:167-173 '59. (MIRA 13:5)
(Black Sea--Turbot) (Spines (Zoology))

KALININA, E.M.

Anatomy of flatfishes (Pleuronectiformes) of the Black Sea. Trudy
SBS 12:318-327 '59. (MIRA 14:10)
(BLACK SEA--FLATFISHES) (FISHES--ANATOMY)

KALININA, E.M.

Intermittent spawning of the turbot *Rhombus macoticus* Pall. in the
Black Sea. Vop. ikht. no.16:137-143 '60. (MIRA 14:4)

1. Sevastopol'skaya biologicheskaya stantsiya Akademii nauk SSSR.
(Black Sea---Turbot)

KALININA, E.M.

Postlarval development and metamorphosis in *Arnoglossus kessleri*
Schm. Zool.zhur. 39 no.7:1050-1055 Jl '60. (MIRA 13:?)

1. Sevastopol Biological Station of the U.S.S.R. Academy of Sciences.
(Black Sea--Flatfishes)

KALININA, E.M.

Permissible and critical concentrations of oxygen with respect
to the young of fishes in the Black Sea. Trudy SBS 14:215-219
'61. (MIRA 15:4)

(Black Sea--Fishes) (Respiration)

KALININA, E.M.

Growth and feeding habits of Black Sea wrasses of the genera
Crenilabrus and Symphodus. Trudy SBS 16:323-336 '63.

Comparison of the growth rate of some pelagic fishes of the
Black and Adriatic Seas. Ibid.:337-339 (MIRA 17:6)

KALININA, E. ✓

PHASE I BOOK EXPLOITATION

SOV/6333

Bochkarev, V. V., ed.

Tekhnika izmereniye radioaktivnykh preparatov; sbornik statey (Techniques for the Measurement of Radioactive Preparations; Collection of Articles) Moscow, Gosatomizdat, 1962. 4600 copies printed.

Eds.: A. M. Smirnova and M. A. Smirnov; Tech. Ed.: S. M. Popova.

PURPOSE: This book is intended for specialists in nuclear instrumentation.

COVERAGE: The book is a collection of articles on recent developments in 1) measurement of the activity and 2) analysis of the composition of emissions of radioactive preparations. The methodology and apparatus used in these studies are described in detail. References are given at the end of each article.

TABLE OF CONTENTS:

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Techniques for the Measurement (Cont.) SOV/6333

Bazhenov, V. A., E. V. Kalinina, and K. N. Shlyagin, Adjustment
of a Lens Spectrometer by Means of a Mobile Gas-Discharge
Counter

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AVAILABLE: Library of Congress

SUBJECT: Nuclear Chemistry

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BN/fm/svb
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ACC NR: AP6026565

noted that in the last five years, Soviet fertilizer output doubled, while world fertilizer output increased 40% in the same period. Soviet fertilizer output is expected to reach 55 million tons by 1970, corresponding to 58 kg of nutrients per hectare of arable land. It is estimated that 43% of crop nutrient loss will be restored by use of fertilizers by 1970 and 51% by 1975. In his paper on the effect of fertilizers on weed growth, I. I. Sinyagin (VASKhNIL) emphasized the importance of selecting proper herbicides. I. I. Gunar criticized the frequent, indiscriminate use of growth promoters and suggested that only compounds capable of stimulating plant-tissue metabolism and growth be considered growth stimulators. The problem of nitrogen balance in the agriculture of nonchernozem soils was discussed in greater detail by V. K. Mikhnovskiy. He emphasized the importance of research on the nitrogen-poor soil zones and means of controlling nitrogen loss through filter water and nitrogen compensation by various inhibitors such as slow-acting fertilizers. Loss of molecular nitrogen is an additional problem which can be alleviated by introduction of plants that facilitate humus formation. Two papers by K. P. Magnitskiy and V. V. Tserling on leaf diagnostics in plant nutrition discussed nutrition requirements and analysis of soil. M. Kh. Chaylyakhin discussed physiologically active compounds, i. e., plant

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growth inhibitors. Their importance lies in their metabolic effects resulting in color changes, and increased resistance to drought, cold, and viral diseases. S. I. Vol'fkovich discussed the technology of new fertilizer types and reported on 27 compounds currently in use in the USSR, including new highly concentrated, complex, and microfertilizers and requirements of fertilizer varieties, emphasizing the production of nonretrograding phosphates not combined by the soil. Also presented were criteria for speeding a radical revolution in fertilizer production technology. The current assortment of mineral fertilizers has not met the requirements of Soviet agriculture, and a conversion to the production of highly complex and mixed fertilizers, such as those with added microelements, emphasizing superphosphate and slow-acting fertilizer types, is suggested. Results from 13,500 tests of mineral fertilizers planned for production in the next few years reveal the importance of sufficient wetting in the nitrogen-poor zones. Physiological aspects such as the influence of soil temperature on the supply of individual nutrients to plants, and the effect of atmospheric electricity on the absorption of nutrients for plant growth and development were presented by Z. I. Zhurbitskiy. T. S. Davtyan discussed the introduction of hydroponics to greenhouses. Methods of soil analysis, determination of stable isotopes, emission spectral analyses in agricultural studies, and determination of microelements in soils and plants were also discussed at the conference. Subjects stressed were

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the importance of further research in plant, soil, and fertilizer interaction, storage and migration of biogenic elements, and balance of nutrients in soil. Further studies of new effective types of fertilizers, herbicides, growth stimulators and other physiologically active compounds, and investigation of the mechanism of combining atmospheric nitrogen and biochemistry of microelements and radioactive substances were recommended. [W.A. 50] [LD]

SUB CODE: 06 / SUBM DATE: none/

Card 414 *BK*

VAL'YAMA, S. P.

"Physico-geographical Characteristics of the Territory of the Dnepropetrovskaya Oblast." Cand. Geo. Sci., Rostov State University
V. M. Molotov, Min. Higher Education USSR, Dnepropetrovsk, 1955.
(KL, No 11, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical
Dissertations Defended at USSR Higher Educational Institutions (15)

GRADOV, G.A.; KALININA, G.F.; MODEL', A.M.; NEVRAYEV, G.A.; SAMOYLOV, A.V.[deceased]; SVIRSKIY, V.A.; KOSITSKIY, Ya.V., kand. srkhit., nauchnyy red.; MANIKOV, M.Ye., kand. med. nauk, nauchnyy red.; MOROZOVA, G.V., red.; BRUSINA, L.N., tekhn. red.

[Sanatoriums and rest homes; manual on designing] Sanatorii i doma otdykh; posobie po proektirovaniyu. Moskva, Gosstroizdat, 1962. 223 p. (MIRA 15:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut obshchestvennykh zdanii i sooruzhenii.

(Sanatoriums) (Labor rest homes)

KUMPAN, P.V.; KALININA, G.F.; IMANOV, M.N.; Prinimali uchastiye:
NECHAYEV, G.A., inzh.; DOROGOV, N.F., inzh.; GOFMAN, S.M.,
inzh.; MAL'TSEV, V.I., inzh.; CHERNYSHOVA, L.B., inzh.;
VORONINA, T.V., red. izd-va; BRUSINA, L.N., tekhn. red.

[Summer health - resort towns] Letnie kurortnye gorodki. Moskva,
Gosstroizdat, 1962. 142 p. (MIRA 16:1)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut ob-
shchestvennykh zdaniy i sooruzheniy.
(Summer resorts)

RAKOV, V.V.; YUFEROV, A.A.; RASKIN, V.Z.; KALININA, G.I.

Modifications of the technological flow sheet for the preparation
of the coal charge in the Kuznetsk Metallurgical Combine. Koks
i khim. no.6:3-7 '63. (MIRA 16:9)

1. Kuznetskiy metallurgicheskiy kombinat.
(Coal preparation) (Novokuznetsk--Metallurgical plants)

ABELEV, G.I., kand. med. nauk; BUKRINSKAYA, A.G., kand. med. nauk;
GEL'TSER, R.R., prof.; GOLINEVICH, Ye.M., prof.; ZHDANOV, V.M.,
prof.; ZDRODOVSKIY, P.F., prof.; KALINA, G.P., prof.; KAULEN,
D.R., kand. med. nauk; KIKTENKO, V.S., prof.; KRYLOVA, O.P.,
kand. med. nauk; KUCHERENKO, V.D., kand. med. nauk; LOMAKIN,
M.S., kand. med. nauk; MOSING, G.S., doktor med. nauk; PERSHINA,
Z.G., kand. sel'khoz. nauk; PEKHOV, A.P., doktor biol. nauk;
PESHKOV, M.A., prof.; TIKHONENKO, T.I., kand. med. nauk;
TOVARNITSKIY, V.I., prof.; SHEN, R.M., prof.; ETINGOF, R.N.,
kand. med. nauk; KALININA, G.P., prof., nauchnyy red. toma;
ZHUKOV-VEREZHNICKOV, N.N., prof., otv. red.; VYGODCHIKOV, G.V.,
prof., zamest. otv. red.; TIMAKOV, V.D., prof., zam. otv. red.
BAROYAN, O.A., prof., red.; KALINA, G.P., red.; PETROVA, N.K.,
tekhn. red.

[Multivolume manual on the microbiology, clinic, and epidemiology
of infectious diseases] Mnogotomnoe rukovodstvo po mikrobiologii
klinike i epidemiologii infektsionnykh boleznei. Moskva, Medgiz,
Vol.2. [General microbiology] Obshchaya mikrobiologiya. Red. V.M.
Zhdanov. 1962. 535 p. (MIRA 16:1)

(Continued on next card)

ACC NR: AP6025389

SOURCE CODE: UR/0366/66/002/007/1155/1157

AUTHOR: Kruglikova, R. I.; Kalinina, G. R.; Khayetskaya, Ya. V.; Leonova, G. S.

ORG: Moscow Institute of Fine Chemical Technology (Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova)

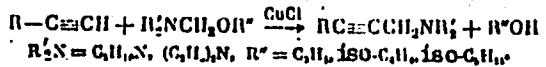
TITLE: The use of alkoxy methylamines in the preparation of α -acetylenic amines

SOURCE: Zhurnal organicheskoy khimii, v. 2, no. 7, 1966, 1155-1157

TOPIC TAGS: acetylenic amine, alkoxy methylamine, ACETYLENE COMPOUND, AMINE, CHEMICAL REACTION

ABSTRACT:

The previously unreported I-V acetylenic amines (see table) were obtained by the Mannich reaction in the presence of CuCl using alkyl-alkoxy methylamines as aminomethylating agents:



Cord 1/2

UDC: 547.312+547.233

ACC NR: AP6025389

Hydrogenation of I over a Pd/BaSO₄ catalyst yielded amine VI. Composition and properties of the acetylenic amines are shown in the table.

(R₂NCH₂C≡CCH₃)₂X

No.	R	X	Yield (%)	bp (p in mm)	IR		NMR		Found		
					ν_1	ν_2	Found	Cal- culated	C	H	N
I	C ₂ H ₅	N ⁻	76	101–103° (0.05)	0.8811	1.4790	79.06	77.40	11.32	11.18	
II	C ₂ H ₅	NC ₂ H ₅	75	120–123 (0.04)	0.9550	1.4530	73.00	72.81	11.38	11.38	14.70
III	C ₂ H ₅	NC ₂ H ₅	80	114–114.5 (0.4)	0.9630	1.4790	73.81	75.16	74.34	10.83	17.80
IV	C ₂ H ₅	S	73	141–143 (0.55)	0.8548	1.5061	87.31	87.60	84.32	10.13	10.16
V	C ₂ H ₅	S	74	120–123 (0.7)	0.9718	1.5151	89.44	89.42	84.03	9.09	12.32
VI	(C ₂ H ₅) ₂ N(CH ₂) ₂ X		63	79.5–80 (0.04)	0.8400	1.4562	82.46	82.96	75.04	14.80	10.00

No.	Formula	Calculated %			mp			Picrate	Sulfonamide	Hydro- chloride
		C	H	N	ν_1	ν_2				
I	C ₁₀ H ₁₈ N ₂	77.36	11.36	11.28	0.88	184.5–185	184–184.5	—	184–184.5	217–219
II	C ₁₀ H ₁₉ N ₃	74.17	11.41	14.42	0.54	147.3–148.5	—	—	—	—
III	C ₁₀ H ₁₉ N ₃	71.43	10.70	17.98	0.31	105–105.5	121–122	121–123	—	—
IV	C ₁₀ H ₁₉ N ₃	68.59	10.08	9.94	0.44	131–131.5	175.8–177	—	—	—
V	C ₁₀ H ₁₉ N ₃	64.28	9.83	12.50	0.43	131–131.5	—	—	—	—
VI	C ₁₀ H ₂₀ N ₂	74.94	14.94	10.94	—	170.5–171	—	—	—	162–163.5

Orig. art. has: 1 table.

SUB CODE: 07/ SUBM DATE: 23Jul65/ OTH REF: 006/

[W.A. 50; CBE No. 10]

Card 2/2

KALININA, G. V.

Cand Med Sci - (diss) "Treatment by sleep of cranial lesions in experimentation and in the clinical aspect." Gor'kiy, 1961.
12 pp; (Gor'kiy State Med Inst imeni S. M. Kirov); 300 copies;
price not given; (KL, 7-61 sup, 259)

L 15481-43
Pr-4 RN/WW

EPR/EWP(j)/EPF(c)/EWF(m)/BDS AFTTC/ASD Ps-4/Pc-4/

ACCESSION NR: AP3005451

S/0204/63/003/004/0548/0557

74

73

AUTHORS: Bondarenko, A. V.; Farberov, M. I.; Tikhvininskaya, M. Yu.
Kalinina, I. A.

TITLE: Liquid phase catalytic oxidation of di-tert.butylbenzoic acid

SOURCE: Neftekhimiya, v. 3, no. 4, 1963, 548-557

TOPIC TAGS: liquid phase catalytic oxidation, butylbenzoic acid, toluene alkylation, synthetic rubber, rosin, isobutylene, aluminum chloride, cobaltous oleate

ABSTRACT: The main product of oxidation of di-tert.butyltoluene is di-tert.butylbenzoic acid. It was previously shown that the alkaline salts of this acid can completely replace the disproportionation rosin which is used as an emulsifier in the production of synthetic rubber. Di-tertiarybutylbenzoic acid has a branching structure with two tert.butyl groups which combine well with the rubber. Di-tert.-butylbenzoic acid was prepared in three stages: (a) alkylation of

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L 15481-63

ACCESSION NR: AP3005451

toluene with isobutylene in the presence of 90-97% H₂SO₄ at atmospheric pressure and 0 to 40C; (b) disproportionation of tert.butyltoluene into di-tert.butyltoluene in the presence of aluminum chloride at a pressure of 10 to 15 mm Hg and 80 to 110C; (c) oxidation of di-tert.butyltoluene with O₂ from the air in the presence of cobaltous oleate catalyst. Authors attempted to evaluate the conditions of liquid-phase catalytic oxidation of di-tert.butyltoluene, the character of the intermediate products and by-products, as well as the kinetics of the reaction. The effect of the above factors were studied in the presence of cobaltous oleate and other catalysts. About 80 mole % of di-tert.butylbenzoic acid and 5 mole % of di-tert.butylbenzoic aldehyde is obtained, based on the reacted di-tert.butyltoluene. Some other products of the reaction were separated and identified. The tar-like product from the reaction effects the inhibition of the reaction. A scheme for the formation of main, intermediate and side products is proposed and an explanation of the inhibiting effect is given. Orig. art. has: 1 table, 4 figures, 3 formulas, and a scheme for a possible conversion during the oxidation reaction mechanism.

ASSOCIATION: Yaroslav Engineering Institute

Card 2/32

DIKUN, P.P.; KALININA, I.A.; KRASNITSKAYA, N.D.; TOKOVY, V.A.

Absorption of 3,4-benzopyrene from tobacco smoke by various filtering materials. Vop. onk. 11 no.6:86-89 '65.

(MIRA 18:8)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasluzhennyy deyatel' nauki prof. N.V.Lazarev) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Serebrov).

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000620110011-9

KALININA, T. D.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000620110011-9"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000620110011-9

A-U See Rec Inst Class. Reactions

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000620110011-9"

MASS I BOOK EXPOSITION

505/5212

Editor. Vsesoyuznyy nauchno-tekhnicheskiy in-t kolloidov i zhidkostey reaktivov
 Vseobshchaya vystavka obnaruzheniya i reshetki sovetskoy (SRR) Partii Substancii
 i Reaktivov. Collection of Articles. Moscow, Sovzvezdye, 1959.
 126 p. (Series: Ilustriruy. Vol. 23) Izdatelstvo ILP Izd-vo.

Sponsoring Agency: USSR. Soviet Ministry. Gosudarstvennyy komitet po kolloidam.

Editor: Yu.V. Lyandau; Tech. Ed.: V.G. Sipkin; Editorial Board or Series:
 V.D. Brusilov, V.M. Dzhurko, N.P. Laktionov, G.N. Lutkin,
 O.S. Mal'kov, G.I. Maltsev, G.A. Perlov (Deputy Ed.), and
 I.O. Sharman.

Purpose: This book is intended for personnel of chemical research and industrial
 chemical laboratories.

Content: The book contains 56 articles by scientists of the Scientific Research
 Institute for Chemical Reagents (ILP), treating methods which may be applied
 by different branches of industry to producing, stabilizing, and studying inor-
 ganic and organic substances of high purity. Figures, tables, and references
 accompany each article. No personalities are mentioned.

TABLE OF CONTENTS:

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Alibazov, V.O. <u>A Continuous Method of Producing Synthetic Diamond</u>	37
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Lutkin, N.P., and I.I. Matin. <u>The Fraction of Hardened Synthesis and the Competitive of Properties of This Product in With Calcium</u>	43
Maltsev, G.I., and I.I. Matin. <u>and A.I. Perlov. The Prepa- ration of Lanthanides</u>	47
Bobina, D.P., and I.I. Matin. <u>The Synthesis of Polymer- ionic Anhydrides</u>	51

53630
S/079/60/030/05/41/074
B005/B016

AUTHORS: Lukin, A. M., Kalinina, I. D.

TITLE: Investigations in the Field of Aryl Phosphonic Acids.¹
II. Synthesis of o-Hydroxy-benzene Phosphonic Acid and
Some of Its Derivatives

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1597-1601

TEXT: The authors begin the present paper with a survey of the methods described in publications which are applied to synthesize o-hydroxy-benzene phosphonic acid (Refs. 2-10). So far, this compound could, however, not be synthesized. The authors made an attempt to obtain this acid from o-aminophenol (according to Ref. 10), and from o-bromo-benzene phosphonic acid. The procedure described in Ref. 10 was somewhat modified to keep the formation of diaryl phosphonic acids as low as possible. 2-Amino-4-chloro phenol was first used as initial product. From this compound, 2-hydroxy-5-chloro-benzene phosphonic acid could be obtained in the form of an equimolecular mixture with its monopotassium salt without considerable difficulties. All attempts to prepare the desired o-hydroxy-

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Investigations in the Field of Aryl Phosphonic
Acids. II. Synthesis of o-Hydroxy-benzene
Phosphonic Acid and Some of Its Derivatives

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B005/B016

benzene phosphonic acid from this acid according to Ref. 10 were, however, unsuccessful since the C-P bond is unstable, and considerable resinification occurred. In further experiments, 2-amino-4-chloro phenol was diazotized in the presence of fluoboric acid. The resultant diazonium fluoborate was allowed to react with phosphorus trichloride in anhydrous ethyl acetate. After completion of this reaction, the resultant precipitate was filtered. The filtrate (A) was decomposed with water, and then allowed to react with the diazonium fluoborate of p-nitro-aniline in bicarbonate-alkaline medium. An azo dye^v containing phosphorus was formed the phenol component of which could be identified with the desired acid. By another treatment of filtrate (A) which is described, the barium salt of o-hydroxy-benzene phosphonic acid could be obtained in 16% yield. From this barium salt, an azo dye was prepared by coupling with the diazonium chloride of p-nitro-aniline which proved to be identical with the above-mentioned azo dye. Far better results were obtained in the synthesis of the o-hydroxy-benzene phosphonic acid from o-bromo-benzene phosphonic acid (Refs. 5,12). This acid could be converted by catalytic hydrolysis in alkaline or ammoniacal medium to give o-hydroxy-benzene phosphonic acid. Cuprous oxide

Card 2/3

Investigations in the Field of Aryl Phosphonic
Acids. II. Synthesis of o-Hydroxy-benzene
Phosphonic Acid and Some of Its Derivatives

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B005/B016

was used as a catalyst. In alkaline medium, the acid could not be obtained in pure condition while in ammoniacal medium chemically pure o-hydroxy-benzene phosphonic acid was obtained in a yield of 40%. The resultant acid in pure condition is a very stable white crystalline compound with a distinct melting point at 178-179°. Contrary to its 5-chloro derivative it couples readily with active diazo compounds. All reactions performed are described in detail in the experimental part. G. B. Zavarikhina and G. P. Stepanova assisted in the experimental work. There are 12 references, 2 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh
reaktivov (All-Union Scientific Research Institute of Chemical
Reagents)

SUBMITTED: February 2, 1959

Card 3/3

S/079/60/030/012/022/027
B001/B064

AUTHORS: Lukin, A. M., Kalinina, I. D., and Z. Nakhina, G. B.
TITLE: On the Synthesis of o-Aminobenzene Phosphonic Acid and Its Derivatives
PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 12, pp. 4072-4076

TEXT: The only method of synthetizing o-aminobenzene phosphonic acid ($\text{o-NH}_2\text{C}_6\text{H}_4\text{PO}_3\text{H}_2$) which has hitherto been published was repeated by the authors in several experiments, however, it could not be confirmed. The method consists in substituting bromine in the o-bromobenzene phosphonic acid by the amino group (Ref.2). The reaction proceeds in two directions: 1) under formation of o-hydroxybenzene phosphonic acid and 2) under instantaneous hydrolysis of the C-P bond of the product to be expected (Refs.3-5). On the basis of the experimental results of Refs.6-9 the authors first attempted to synthesize o-aminobenzene phosphonic acid according to the method by G. O. Doak, L. D. Freedman (Ref.10) from o-nitroaniline. In this experiment, however, no further nitroproduct could be obtained besides o-nitrophenol, whereas in the mother liquor a

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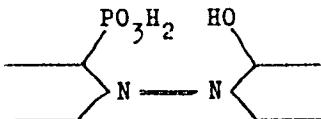
On the Synthesis of o-Aminobenzene Phosphonic S/079/60/030/012/022/027
Acid and Its Derivatives B001/B064

compound which could be diazotated was obtained. The corresponding amine could be isolated in the form of an azo dye which is a mixture of two azo dyes: the coupling product of chloro aniline and the amine containing the chlorine and the phosphone group. Further experiments showed that the latter amine is the 2-amino-5-chlorobenzene phosphonic acid (I). The authors assumed that the presence of a phosphone group in ortho position to the amino group increases the complex-forming capability of amine (I) as compared with chloro aniline. For this reason, they studied a method allowing the isolation of amine (I) directly as complexes with heavy metals. This experiment succeeded with the copper complex from which the acid was isolated in chemically pure state. In this case the necessary amount of CuCl (Ref. 10) had to be increased by 3.5 times. Thus, the isolation of amine (I) was possible with an optimum yield of 15% (5% as azo dye). Besides chloro aniline, amine(I), and o-nitrophenol a series of side products was identified. This reaction is very complex. From the acid obtained 6 azo dyes were synthetized containing the ring-forming structure

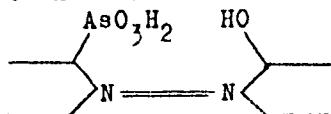
Card 2/3

On the Synthesis of o-Aminobenzene
Phosphonic Acid and Its Derivatives

S/079/60/030/012/022/027
B001/B064



which is similar to the well known structure



(Refs. 11-19). The analytical properties of the azo compounds obtained will be further studied. G. P. Stepanova took part in the experimental work. There are 22 references: 12 Soviet, 9 US, and 1 British.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut
khimicheskikh reaktivov (All-Union Scientific Research
Institute of Chemical Reagents)

SUBMITTED: January 3, 1960

Card 3/3

KALININA, I. D., Cand. Chem. Sci. (diss) "Investigation in
Field of Benzol Phosphoric Acids and their Nitrogen Derivatives."
Moscow, 1961, 16 pp (Moscow Chem-Eng. Institut. im D. I. Mende-
leyev) 150 copies (KL Supp 12-61, 266).

NEMODRUK, A.A.; NOVIKOV, Yu.P.; LUKIN, A.M.; KALININA, I.D.

2,7-Bis-(4-chloro-2-phosphonbenzeneazo)-1,8-dihydroxynaphthalene-
3,6-disulfonic acid (chlorophosphonazo III), a new reagent for
the photometric determination of uranium. Zhur.anal.khim. 16
no.2:180-184 Mr-Ap '61. (MIRA 14:5)

1. Vernadskiy Institute of Geochemistry and Analytical Chemistry,
Academy of Sciences U.S.S.R., Moscow.
(Uranium--Analysis)

NEMODRUK, A.A.; NOVIKOV, Yu.P.; LUKIN, A.M.; KALININA, I.D.

2-(4-Chloro-2-phosphonobenzeneazo)-1,8-dihydroxynaphthalene-
3,6-disulfonic acid (chlorophosphonazo 1) as a reagent for
the photometric determination of hexavalent uranium. Zhur.
anal.khim. 16 no.3:292-296 My-Je '61. (MIRA 14:6)

I. V. I. Vernadsky Institute of Geochemistry and Analytical
Chemistry of the Academy of Sciences U.S.S.R., and All-Union
Scientific Research Institute of Chemical Reagents, Moscow.
(Uranium—Analysis)

LUKIN, A.M.; KALININA, I.D.

Interaction between nitrobenzenediazonium fluoroborates and phosphorus trichloride. Dokl. AN SSSR 137 no.4:873-875 Ap '61.
(MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov. Predstavлено akademikom M. I. Kabachnikom.

(Diazonium compounds)
(Boron fluoride)

L 10620-63

ACCESSION NR: AP3001017

S/0075/63/018/005/0562/0566

44

AUTHOR: Luk'yanov, V. F.; Lukin, A. M.; Knyazeva, Ye. M.; Kalinina, I. D.

TITLE: 4-chlorobenzene-2-phosphonic acid-(1-azo-1)-2-hydroxynaphthalene-3, 6-disulphonic acid (chlorophosphonazo R) as a reagent for photometric determination of beryllium

SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 5, 1963, 562-566

TOPIC TAGS: determination of beryllium; chlorophosphonazo R; photometry

ABSTRACT: Chlorophosphonazo R (4-chlorobenzene-2-phosphonic acid-(1-azo-1)-2-hydroxynaphthalene-3, 6-disulphonic acid) has been proposed for the photometric determination of beryllium. The reagent forms a stable yellow compound with beryllium which permits the determination of beryllium in the presence of masking substances without prior separation of beryllium. The concentrations of beryllium as low as 0.1% can be determined in the presence of 1.0% of iron. The sensitivity of the determination is 0.1 ppm of BeO. The relative experimental error is not more than + or - 5% when the BeO content is 0.05 to 0.50%. The relative error increase to + or - 10% when the BeO content is less than 0.05%. Although the above reagent is not selective for beryllium, K⁺, Na⁺, Ti⁴⁺, Tl³⁺, Sn⁴⁺

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L 10620-63

ACCESSION NR: AP3001017

2+, Sn sup VI, Sb sup III, Cr sup 3+, Bi sup 3+, Ta sup V, Nb sup V ions do not form color complexes. Orig. art. has: 3 tables and 2 graphs.

ASSOCIATION: none

SUBMITTED: 25Jul61

DATE ACQD: 12Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 012

OTHER: 000

ch 1/2

Card 2/2

ADENSKIY, Andrey Dmitriyevich, prof. Prinimala uchastiyе
KALININA, I.F.; KRYUKOVSKAYA, B., red.

[Therapeutist's guide] Sputnik terapevta. Minsk, Izd-
vo "Belarus'," 1964. 694 p. (MIRA 18:5)

LUKIN, A.M.; KALININA, I.F.

New reagents synthesized by the Institute of Chemical Reagents.
Zav.lab. 27 no.2:239-240 '61. (MIRA 14:3)
(Chemical tests and reagents)

KALININA, I.F.

Method and diagnostic value of puncture of the lymph nodes.
Zdrav.Bel. no.3:33-35 '62. (MIRA 15:5)

1. Kafedra terapii (zaveduyushchiy - professor A.D. Adenskiy)
Belorusskogo instituta usovershenstvovaniya vrachey (direktor -
dotsent N.Ye. Savchenko).
(LIMPHATICS--BIOPSY) (PUNCTURES (MEDICINE))

KALININA, I.I.; NAVROTSKAYA, V.S.

Some data on effective precipitation in steppes of the Black
Sea region. Trudy OGMI no.16:31-41 '58. (MIRA 12:9)
(Black Sea region--Precipitation (Meteorology))
(Crops and climate)

KALININA, I.I.

Microclimatic features of the southeastern part of the Lermontov
Health Resort. Trudy OGMI no.23:31-34 '61. (MIRA 16:6)
(Odessa--Climate)

KALININA, I.I.; SMEKALOVA, L.K.

Moisture transfer over the Ukrainian S.S.R. and the Moldavian S.S.R.
Trudy OGMI no.28:39-45 '62. (MIRA 16:6)
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KALININA, K.A. [deceased]

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Uch.zap.Len.un. no.113:81-84 '49. (MLRA 10:3)
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KARINA, K.A.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000620110011-9"

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imeni F.F.Erismana.

(VEGETABLES, effects,
on mineral metab. in child. (Rus))

(NITROGEN, metabolism,
eff. of vegetables in child. (Rus))

(CALCIUM, metabolism,
same)

(PHOSPHORUS, metabolism,
same)

(AGNESIUM, metabolism,
same)

KALININA

EXCERPTA MEDICA Sec 2 Vol 12/8 Physiology Aug 59

3218. EFFECT OF UV IRRADIATION ON THE MINERAL AND NITROGEN
METABOLISM OF ADOLESCENTS (Russian text) - Shitskova A. P. and

Kalinina K. A. - GIG. I SAN. 1958/11 (37-43) Graphs 3 Tables 4
The metabolism of Ca, P, Mg and N was studied in 4 subjects, aged 15-17 yrs., before and after prophylactic treatment with UV light. An increased positive balance of minerals and N was found after exposure. The percentages of retention before and after UV treatment were 34.9 and 62.4 for Ca, 22.2 and 41.0 for P, and 36.2 and 32.1 for N.

IZ OTDEL. pishchevoy gigieny
Moskov. nauchno-issled. in-ta
sanitarni i gigieny im F.F. Erisman.

SHITSKOVA, A.P., kand.med.nauk; Prinimali uchastiye: KALININA, K.A., kand. biolog.nauk; SINITSYN, S.N., kand. biolog. nauk; SHAROVA, M.A. mladshiy nauchnyy sotrudnik; VASIL'YEVA, O.I., mladshiy nauchnyy sotrudnik; YUN'KOVA, A.A., laborant.

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SO: Sum. No. 480, 9 May 55

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CA

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The theory of dyeing cellulose fibers by direct dyes. I
The effect of functional groups on the color uptake by cellulose. F. I. Sudov and K. G. Kalinina (Moscow Textile Inst.). *Kolloid Zhar.* 14, 118-31 (1952). Bleached cotton (I), contg. 0.2% CHO and 0.1% COOH groups of the theo-
(II) contg. 0.2% CHO and 0.1% COOH groups of the theoretical amt., took up 0.21 g. Direct Pure Blue (III) per 100 g. from a soln. of 0.03 g. II and 0.3 g. NaCl/l. at 65°; after 48 hr. the adsorbed amt. x increased to 0.21, and from a soln. of 100 g. NaCl/l. x was 0.08 after 1 hr. The dialdehyde deriv. of cellulose prep'd. from I and HIO₃ took up a little more II than did I as long as the content of COOH was less than 0.15% (the CHO content being 0.6-3.3%); when the COOH content was 0.5% and the CHO content 12%, x was 60% that of I after 1 hr. and 80% after 48 hr. This decrease of x presumably is due to the low pH of the bath when the COOH content is great and to formation of lacton bonds. Monocarboxyliccellulose (III) prep'd. from I and NO took up no II from a bath contg. 0.3 g. NaCl/l., and its x from the soln. of 100 g. NaCl/l. was smaller than x of I and smaller the greater the COOH content; e.g., x was 0.18 after 1 hr. when the fiber contained 1 COOH for 2 glucose radicals. III treated for 16 hrs. with 0.05 M Ca(OAc)₂ took up II well, and x often was greater the greater the COOH content. The treatment with Ca(OAc)₂ increased the pH of the bath; this presumably was the cause of the better dyeing. Xylan took up no II from a soln. of 0.03 g. II and 0.3 g. NaCl/l.; this shows that the CHO group of cellulose is important for dyeing. J. J. Bikerman

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